

# Author Index

*Canadian Journal of Animal Science, Volume 88, 2008*

- Aalhus, J.L., 591  
Aali, M., 457  
Abdul-Careem, M.F., 180  
Abeysekara, A.W.A.S., 147  
AbuGhazaleh, A. A., 123  
Adegoke, O.A.J., 161  
Afsharmanesh, M., 57  
Ahvenjärvi, S., 733  
Aiken, R., 181  
Akhavan, T., 180  
Akinremi, O.O., 162  
Alashawkany, A.R., 137  
Aldai, N., 152, 591  
Alexander, T.W., 142  
Alibin, C.P., 158  
Allard, G., 325  
Allison, L.E., 175  
Aluko, R., 168  
AlZahal, O., 736  
Ambrose, D.J., 151  
Ames, H., 170  
Anderson, D.M., 166, 167, 178, 637  
Anderson, G.H., 169, 180  
Anderson, H.D., 158  
Anil, L., 381  
Anil, S.S., 381  
Annett, C., 138  
Anntunes, G., 463  
Ansah, G., 180  
Appuhamy, J.A.D.R.N., 730  
Archbold, T., 165  
Arsenault, N., 144  
Ataku, K., 667  
Aukema, H., 172, 182  
Ayerza, R., 257  
Azcona, J.O., 257  
  
Baah, J., 140, 185  
Bach, S.J., 143, 178, 185  
Bailey, C.R., 113  
Baines, D., 41, 51, 191, 581  
Baker, K.L., 179  
Bakovic, M., 152  
Bal, M.A., 609  
Baldwin, M.P., 176  
Balendran, A., 425  
Ball, R.O., 161  
Bannink, A., 725, 728  
  
Baron, V.S., 191  
Basarab, J., 139, 190, 191  
Bazinet, R.P., 159  
Beauchemin, K.A., 97  
Becker, A.B., 175  
Bélaire, G., 71  
Bélanger, G., 325  
Beliveau, R.M., 677  
Beltranena, E., 65, 293, 631  
Benchaar, C., 117, 141, 145, 146, 154, 331, 335  
Benkel, B.F., 135, 136  
Berard, N.C., 140  
Bergen, R.D., 369  
Bernardes, M.S., 732  
Berry, R.J., 138, 357  
Berthiaume, R., 145, 335, 685  
Bertolo, R.F., 176  
Beta, T., 168  
Bhandari, S.K., 164  
Bilodeau-Goeseels, S., 136, 343  
Bishop, D.G., 135  
Block, H.C., 190, 667  
Borderas, T.F., 1  
Boylan, W.J., 391, 399, 569  
Braun, K., 163  
Bregendahl, K., 731  
Brooks, S.P.J., 142  
Brunton, J.A., 176  
Bu, D., 140  
Budgell, K.L., 469, 637  
Burr, L., 183  
Burvenich, C., 449  
  
Campbell, C.P., 137  
Caola, G., 351  
Casella, S., 351  
Castonguay, F.W., 85, 489  
Catalá-Gregori, P., 623  
Chabot, B., 139  
Chae, B.J., 247, 283  
Champagnem C., 156  
Chan, H.M., 174, 181  
Charmley, E., 152, 191, 439  
Chaveiro, A., 463  
Chaves, A.V., 117, 154  
Cheema, S.K., 176  
Chen, J., 182  
  
Cheng, K., 136  
Cheng, S.M., 139, 140  
Chevalier, S., 161  
Chibisa, G.E., 144  
Ching, R.H.H., 171  
Chiquette, J., 85, 331  
Cho, F., 169  
Chouinard, P.Y., 156  
Christensen, D., 145, 190  
Christensen, D.A., 149, 150, 184, 190, 667  
Christopherson, R.J., 156  
Church, J., 138  
Chwalibog, A., 726  
Clandinin, M.T., 152  
Clark, H., 309  
Classen, H.L., 577  
Coates, W., 257  
Colazo, M.G., 151  
Collier, R.J., 449  
Columbus, D., 163, 177  
Colyn, J., 138, 139  
Cook, N., 138, 139  
Corbett, R., 151  
Corey, P., 182  
Cornish, S., 173  
Côtés, C., 141, 146  
Cote, D., 176  
Crow, G.H., 135, 142, 151  
Crowe, J.R.E., 321  
Cruz, G.D., 728  
Cue, R.I., 213  
Cunnane, S., 186  
  
D'Amours, M., 685  
Dam, Y., 175  
Damanik, R., 192  
Danesh Mesgaran, M., 151  
Danfaer, A., 726  
Daniel, M.A., 167, 178, 637  
Davis, E.C., 129  
de Lange, C.F.M., 163, 167, 177, 271  
de Léon, V.A., 732  
de Passille, A.M.B., 1  
De Riu, N., 729  
De Spiegeleer, B., 449  
Dean, H.J., 177  
DeClercq, V., 168, 183

*Page numbers in bold refer to abstracts*

- Deen, J., 381  
 Delaney, S., 85  
 DelCurto, T., 79  
 DeMar, J., 186  
 Deng, D.F., 729  
 Desjardins, R.L., 641  
 Dhilibeck, P.D., 173  
 Dickson, T., 158, 162  
 Diehl-Jones, W., 168  
 Dijkstra, J., 725, 728, 736  
 Dinn, N., 136, 151  
 Dobos, R.C., 735  
 Dodge, M.E., 176  
 Doepel, L., 148, 321  
 Doiron, K., 189  
 Doncaster, K.L., 469  
 Dourmad, J.Y., 195  
 Drapeau, R., 325  
 Drew, M.D., 429  
 Du, L., 145, 190  
 Duchateau, G., 168  
 Dugan, M.E.R., 152, 185, 591  
 Duncan, A.M., 152, 175  
 Dupuis, M., 165  
 Durunna, O.N., 135  
 Duynisveld, J.L., 152, 191, 439
- Edirimanne, E.R.K.V., 169  
 Edvardsen, H., 613  
 Egan, A.R., 147, 150  
 Eklund, M., 156  
 Emiola, I.A., 162  
 Erb, S., 581  
 Eskandarinasab, M., 409  
 Estill, C.T., 151  
 Eugène, M., 331  
 Eun, J.-S., 97
- Fairbrother, J.M., 165  
 Fan, M.A., 144  
 Fan, M.Z., 152, 165, 303, 703, 731  
 Fang, P., 33  
 Fang, T., 181  
 Farid, A., 135, 136  
 Farmer, C., 160, 195, 585  
 Farnworth, E., 156, 173, 189  
 Farzamirad, V., 170, 171  
 Fathi Nasri, M.H., 736  
 Faucitano, L., 685  
 Felton, D.O., 123  
 Field, C.J., 154, 155, 156, 157  
 Firkins, J.L., 727  
 Fisher, G., 181  
 Fisher, M., 173  
 Flesch, T.K., 641  
 Fliss, I., 156  
 Foin, T.C., 732  
 Fournier, A., 1
- France, J., 725, 728, 736  
 Fraser, J., 517  
 Fredeen, A., 144  
 French, N., 139  
 Friel, J., 171  
 Friel, J.K., 168, 170, 176, 177  
 Furedi, C.J., 149, 151  
 Fynn, M.A., 138
- Gagnon, N., 141, 146, 165  
 Gallinger, C., 257  
 Gannon, V., 192  
 Gao, F., 107  
 Gao, Z., 641  
 Garcia, P.T., 257  
 Garland, G.J., 29  
 Garrioch, C.F., 153  
 Gaudette, N., 158  
 Gerdung, C.A., 155  
 Gervais, R., 156  
 Ghafouri-Kesbi, F., 409  
 Ghorbani, G.R., 449  
 Giannetto, C., 351  
 Gibb, D.J., 499, 659  
 Giguère, A., 160, 166  
 Gilani, G.S., 142, 188  
 Girard, C.L., 489  
 Giritharan, G., 457  
 Glimm, D.R., 157  
 Goetsch, A.L., 113  
 Goh, Y.K., 152  
 Gonyou, H.W., 9, 559  
 Goonewardene, L.A., 631  
 Gordon, M., 136, 151, 425  
 Gordon, N., 181  
 Goruk, S.D., 154, 156  
 Gozho, G., 144, 149, 179  
 Gramlich, L., 170  
 Grant, A., 170  
 Greenwood, C.E., 175  
 Greter, A.M., 129  
 Grimmet, M., 191  
 Guenter, W., 137
- Hamedani, A., 180  
 Hamilton, D.L., 147  
 Han, Y., 187  
 Hanigan, M.D., 730, 734  
 Hao, X., 659  
 Harding, S.V., 161  
 Harmon, S.D., 186  
 Harris, W.S., 157  
 Hart, K.J., 711  
 Hashimoto, T., 237  
 Hashizume, N., 237  
 Hassanabadi, A., 409  
 Hathaway, R.L., 79  
 Hayirli, A., 148
- He, M.L., 117, 141, 154, 155, 160  
 Heendeniya, R.G., 149, 150, 190  
 Helgason, B., 143  
 Heo, S., 247  
 Heravi Moussavi, A., 137, 151  
 Hernandez, C.C., 185  
 Hetland, H., 613  
 Hillyer, L., 173  
 Hirata, T., 237  
 Hobin, M.R., 149  
 Holley, R.A., 140  
 Holligan, S., 144, 303  
 Holly, R., 139  
 Holm, E., 148  
 Holt-Klimec, L., 138, 139  
 Holub, A., 153, 187  
 Hosea, H.J., 156  
 Hou, X., 107  
 House, J.D., 137, 158, 169, 172, 178, 182  
 Houweling, A.H., 168  
 Hristov, A.N., 117  
 Huang, B., 170  
 Huang, J.-F., 601  
 Hubbell, D.S., 113  
 Huff, M.W., 152  
 Huhtanen, P., 733  
 Humphrey, B., 535  
 Hung, S.S.O., 729  
 Huzzey, J.M., 138
- Ibrahim, S.A., 123  
 Ipharraguerre, I., 535  
 Izuno, M., 237
- Janzen, H.H., 143  
 Jassal, D., 181  
 Javadmanesh, A., 137  
 Jayas, D., 172  
 Jeaurond, E., 163, 257  
 Jew, S., 155, 168  
 Jin, Z., 247  
 John, S.J., 192  
 Johnson, R.P., 178  
 Jones, P., 155  
 Jones, P.J.H., 168
- Kaducen, T.L., 186  
 Kahane, S.H., 225  
 Kalimbira, A.A., 181  
 Kalmokoff, M.L., 142  
 Kang, J.X., 153  
 Kastelic, J.P., 151  
 Katepa-Mupondwa, F., 172  
 Kebreab, E., 183, 725, 728, 736  
 Kelln, B.M., 146  
 Kelly, N., 303, 703

- Kennedy, A.D., 149, 151, 225, 369, 609  
 Khafipoor, E., 147, 149, 179, 189  
 Kheadr, E.E., 156  
 Kiarie, E., 162, 485  
 Kim, W-T., 283  
 King, R., 138  
 King, T., 146  
 Kitts, D., 168, 170, 171  
 Klieve, A. V., 183  
 Knapp, J.R., 727  
 Ko, M., 144, 303  
 Kong, X., 170, 172  
 Kopilas, M.A., 158  
 Kozyrskyj, A.L., 175  
 Kramer, J.K.G., 152, 160, 185, 591  
 Krause, D., 139, 164, 140, 147, 164, 179, 185, 485  
 Krodker, A., 181  
 Kubow, S., 174, 181  
 Kuhnlein, U., 180  
 Kukulege, A., 137  
 Kulenkamp, A., 180  
 Kulshreshtha, S.N., 185  
 Kumar, A., 71  
 Kuner, J., 188  
 Kwan, J., 142
- Laarman, A., 141  
 Laarveld, B., 429  
 Laberge, S., 85  
 Lackeyram, D., 165  
 Lang, K., 146  
 Lantinga, E.A., 725  
 Lapierre, H., 145, 335  
 Lardner, H.A., 19, 146  
 Lavoie, J.-C., 168  
 Lawlor, J.B., 158  
 Lazarevic, N., 613  
 Le, K., 181  
 Lee, H.J., 159  
 Lee, S.M., 729  
 Leeson, S., 205  
 Lemke, S.L., 157  
 Lepage, P., 138  
 Leson, G., 169  
 Lessard, M., 165, 166, 623  
 Lewis, N.J., 137, 138, 357  
 Li, E.T.S., 171  
 Li, I.M.Y., 158  
 Li, S., 149, 189  
 Li, T.S.E., 158  
 Li, X., 641  
 Li, X.-Z., 189  
 Li, Y., 419  
 Li, Y.Z., 559  
 Liao, S., 170
- Lien, V.W., 152  
 Lin, Y.H., 186  
 Ling, A., 174  
 Lippmeier, C., 188  
 Little, A.C., 139, 140  
 Liu, D., 141  
 Liu, J.-N., 174, 181  
 Liu, L., 731  
 Liu, Q., 152  
 Liu, T., 139  
 Liu, Y., 107  
 Lofstedt, R., 439  
 Lohmann, K.L., 147  
 Loopstra, R.C., 175  
 Lopetinsky, K., 293  
 Lopez, G., 195  
 Lopez, S., 736  
 Lotfollahian, H., 475  
 Louie, M., 192  
 Lu, J., 155, 157  
 Luhovyy, B., 169  
 Lysyk, T.J., 29
- Ma, D.W.L., 153  
 Macdonald, C., 181  
 Macdonald, I., 152  
 Machmüller, A., 309  
 MacIsaac, J.L., 166, 167, 469  
 MacIsaac, P.F., 166  
 MacIssac, J.L., 637  
 MacKinnon, T.L., 637  
 Macmillan, K.L., 147, 150  
 MacPherson, M.J., 166  
 Mader, C.J., 144  
 Maenz, D.D., 149, 150, 190  
 Majak, W., 29  
 Mallet, S., 623  
 Mandell, I.B., 137, 145, 163  
 Marchand, S., 138  
 Marchessault, G.D.M., 175  
 Marliss, E.B., 161  
 Marques, A., 463  
 Martineau, R., 145, 335  
 Massé, D., 331  
 Masson, L., 41, 51, 191  
 Matte, J.J., 165, 166, 489  
 Mayer, F., 160  
 Mazuji, M.T., 475  
 McAllister, M., 142  
 McAllister, T., 41, 51, 117, 140, 142, 143, 152, 154, 160, 178, 179, 185, 191, 192, 369, 499, 581, 659  
 McBride, B.W., 144, 303, 703, 736  
 McBride, R., 736  
 McCartney, D., 191, 517  
 McCartney, D.H., 19, 190
- McEwen, P.L., 145, 163  
 McKiernan, W., 735  
 McKinnon, J., 141, 145, 190  
 McKinnon, J. J., 149, 150, 179, 184, 190, 667, 721  
 Mcknight, L.L., 176  
 McLennan, S.R., 183  
 McLeod, R.S., 159  
 McNiven, M.A., 152  
 McPhee, M.J., 735  
 Mehrotra, M., 189  
 Mehrzad, J., 449  
 Mertens, D.R., 730  
 Méthot, H., 489  
 Metz, J., 188  
 Miao, Z.-G., 601  
 Michaud, R., 85  
 Mickelson, J.R., 152  
 Miller, J.R., 159  
 Miller, S.P., 179  
 Mine, Y., 152, 165  
 Mir, P.S., 152, 154, 155, 160  
 Mirza, M.A., 469  
 Mitchell, A., 152  
 Mithani, S., 189  
 Moehn, S., 161  
 Moffat, M., 176  
 Moghadasian, M., 157, 181  
 Mohiti-Asli, M., 475  
 Molano, G., 309  
 Monardes, H.G., 213  
 Moniello, G., 729  
 Monk, J.M., 173  
 Montanholi, Y.R., 179  
 Moreira da Silva, F., 463  
 Moro-Méndez, J., 213  
 Mosenthin, R., 156  
 Moskal, J., 173  
 Mustafa, A.F., 71  
 Mutsvangwa, T., 144, 149, 179  
 Mutungi, G., 156  
 Myrie, S.B., 176
- Nadeau, E., 165  
 Nagamine, I., 237  
 Nam, R., 153  
 Napadajlo, H., 155  
 Nassiry, M.R., 137  
 Naylor, J.M., 147  
 Neufeld, J., 158, 169  
 Nikkah, A., 149, 151  
 Niu, D., 178  
 Niu, Z., 507  
 Niven, S.J., 163  
 Nürnberg, K., 160  
 Nyachoti, C.M., 162, 164, 485

- Oba, M., 129, 609  
 Obese, F.Y., 147, 150  
 Oddy, V.H., 735  
 Odongo, N.E., 736  
 Ogborn, M., 172, 182  
 Ohama, A., 517  
 Okano, M., 237  
 Okine, E.K., 155, 191  
 Olkowski, A.A., 144  
 Oltjen, J.W., 728, 735  
 Ominski, K., 139  
 Ominski, K.H., 140, 143, 148, 651, 693  
 Opapeju, F., 164  
 Orengo, J., 623  
 Othman, R.A., 181  
 Ouellet, D.R., 85, 145, 335, 685  
  
 Palin, M.F., 184, 585  
 Palliser, C.C., 734  
 Palme, R., 179  
 Park, M.S., 247  
 Parrott, M.D., 175  
 Pawlosky, R.J., 186  
 Payne, R., 164  
 Pellerin, D., 145, 335, 685  
 Pelletier, S., 325  
 Penner, G.B., 129, 609  
 Perera, R., 425  
 Petit, H.V., 85, 141, 145, 146, 160, 184, 335  
 Pezeshki, A., 449  
 Piccione, G., 351  
 Pierce, G.N., 169  
 Pinares-Patiño, C.S., 309  
 Pirelli, G.J., 79  
 Pivotto, L.M., 137  
 Plaizier, J.C., 147, 149, 151, 179, 189  
 Plourde, M., 155  
 Pluske, J.R., 177, 271  
 Poppi, D.P., 183  
 Pownall, T.L., 176  
 Pramuk, K., 152  
 Praslickova, D., 180  
 Prayitno, N.R., 153  
 Pretheeban, T., 425, 457  
 Proctor, S.D., 154, 155, 157  
 Protudjer, J.L.P., 175  
 Pullman, A.W., 175  
 Pulsipher, G.D., 79  
 Puwerkerk, D., 183  
 Pye, K.M., 182  
  
 Racz, V., 145, 190, 667  
 Rademacher, M., 271  
 Rajamahedran, R., 136, 151, 425, 457  
 Randall Simpson, J., 181  
  
 Rao, J.S., 159  
 Rapoport, S.I., 159  
 Rathgeber, B.M., 469  
 Rathgeber, B.R., 577  
 Reijjs, J.W., 725  
 Rempel, W.E., 391, 399, 569  
 Renema, R., 577  
 Reuter, T., 142  
 Richardson, G.F., 439  
 Rideout, T.C., 152, 731  
 Riediger, N., 157, 181  
 Rodriguez-Lacompte, J.C., 137  
 Rolland, D.C., 152, 591  
 Rong, Z., 601  
 Rosenkrans, Jr. C.F., 113  
 Rosenweig, B., 188  
 Rossnagel, B., 145, 190, 507, 711  
 Roura, E., 535  
 Rozema, E., 178  
 Rushen, J., 1  
 Ruth, M., 157  
 Ruth, M.R., 154  
  
 Sabourin, R., 177  
 Saggat, J., 182  
 Sainz, R.D., 728, 729, 732, 735  
 Salem, Jr., N., 186  
 Salmon, D.F., 631  
 Samarakone, T.S., 9  
 Samra, R.A., 180  
 Sands, J.S., 162  
 Santos, P., 463  
 Saraiva, M.M., 175  
 Sarson, A.J., 180  
 Sauvart, D., 730  
 Sauve, Y., 153  
 Schaefer, A.L., 138, 139  
 Schang, M.J., 257  
 Schenkel, F.S., 179  
 Schoenau, J., 146  
 Schwartzkopf-Genswein, K.S., 369, 499  
 Scott, T.A., 57  
 Seguin, P., 71, 325  
 Sethi, R., 159  
 Sevenhuysen, G., 182  
 Shah, S.M., 170  
 Shariatmadari, F., 475  
 Sharif, S., 180  
 Sharma, R., 185, 192  
 Sharma, V.D., 189  
 Shen, G., 33  
 Shen, Y., 731  
 Shim, Y.Y., 172  
 Shinde, P., 283  
 Shinjo, A., 237  
 Shirkey, T.W., 429  
 Shrestha, J.N.B., 391, 399, 569  
  
 Shuaibi, A., 182  
 Siggers, R.H., 429  
 Silva, E., 157  
 Silversides, F.G., 57, 577  
 Simpson, J.A.R., 175  
 Singh, R., 425  
 Siow, Y.L., 169  
 Slominski, B.A., 162  
 Small, J.A., 225  
 Smith, A., 309  
 So, M.H.H., 158, 171  
 Solimani, H., 151  
 Song, Y., 577  
 Soo, I., 170  
 Soon, G., 174  
 Sorensen, H., 726  
 Spector, A.A., 186  
 Spence, L.D., 177  
 Stanford, K., 142, 178, 185, 192  
 Stanimirovic, A., 153  
 Stark, K.D., 188  
 Steinhart, H., 160  
 Stevenson, F.C., 19  
 Stewart, A.A., 143, 651  
 St-Pierre, N.R., 733  
 Strathe, A.B., 726  
 Strawford, M.L., 559  
 Streeter, M., 499  
 Stringer, D.M., 183  
 Suh, M., 153, 157, 168, 170, 181  
 Sungawa, K., 237  
 Svihus, B., 613  
 Swanson, K.C., 144, 179, 303, 703  
  
 Tactacan, G.B., 137  
 Tam, K.S., 171  
 Taylor, C., 168  
 Taylor, C.G., 183  
 Tedó, G., 535  
 Thompson, L.U., 182  
 Tian, W.-Q., 33  
 Tolosa, M.X., 183  
 Toronchuk, G.P., 321  
 Trautwein, A.A., 168  
 Travel, A., 623  
 Tremblay, G.F., 85, 325  
 Trottier, N.L., 195  
 Tse, I.M.Y., 171  
 Tsopmo, A., 168, 170, 171, 177  
 Tyedmers, P., 144  
  
 Undi, M., 651, 693  
  
 Vafa, T., 151  
 Van Calsteren, M.R., 156  
 van Haarlem, R.P., 641  
 Van Kessel, A.G., 139, 144, 177, 187, 429

- Van Vliet, B.N., 176  
 Vanstone, C.A., 168  
 Vatanparast, H., 170, 173  
 Veira, D., 151  
 Vine, D.F., 155, 157  
 Vlaming, J.B., 309  
 von Keyserlingk, M.A.G., 138  
  
 Wakefield, A., 172, 182  
 Walburger, K.J., 79  
 Walker, A.M., 721  
 Wamnes, S., 138, 357  
 Wang, L.-J., 601  
 Wang, Y., 142, 143, 155, 160, 185  
 Wang, Y.J., 144, 303, 703  
 Wang, Y.-R., 601  
 Wang, Z.R., 165  
 Weary, D.M., 138  
 Weaver, C., 188  
 Weiler, H., 160, 182  
 Weiler, H.A., 172  
 Werchola, G., 731  
 Wescott, N.D., 171  
 Whiting, S.J., 170  
 Wichtel, J.J., 439  
 Widowski, T., 163  
 Wierenga, K.T., 65  
 Wildeman, B., 667  
  
 Williams, L.M., 667  
 Willing, B.P., 139, 177, 187  
 Wilson, A.R.M., 183  
 Wilson, C., 651, 693  
 Wilson, C.H., 148  
 Wittenberg, K.M., 140, 143, 148, 651, 693  
 Wong, C., 169  
 Wong, S., 174  
 Woo, C.W., 169  
 Woods, T.D., 167  
 Woodward, B., 173  
 Woyengo, T.A., 162  
 Wu, G., 184  
 Wunasundara, J.P.D., 172  
 Wykes, L.J., 161  
  
 Xiao, C.W., 188  
 Xie, J.Y., 169  
 Xu, W., 142  
 Xu, Y., 142, 178  
 Xu, Z., 142, 143  
  
 Yada, R.Y., 152  
 Yáñez, J.L., 65  
 Yang, B.K., 247  
 Yang, C., 165  
 Yang, G.S., 419  
  
 Yang, H., 177  
 Yang, W.Z., 117, 141, 154  
 Yang, X., 731  
 Yang, Y.X., 247  
 Yao, L., 168  
 Yen, J.T., 731  
 You, J.S., 154, 160  
 Young, K.W.H., 175  
 Yu, P., 141, 145, 149, 150, 184, 189, 190, 507, 711  
 Yuan, Y.V., 171  
  
 Zahradka, P., 168, 183  
 Zalot, L.C., 175  
 Zan, L.-S., 33  
 Zello, G.A., 147  
 Zhang, F., 33  
 Zhang, G., 170, 172  
 Zhang, J.-L., 33  
 Zhang, Z., 178  
 Zhao, H.L., 168  
 Zhu, C., 163  
 Zhu, C.H., 271  
 Zhu, C.L., 163, 167, 177  
 Zijlstra, R.T., 293, 631, 65  
 Zimonja, O., 613  
 Zirkle, R., 188



# Subject Index

Canadian Journal of Animal Science, Volume 88, 2008

- ABCG5/G8, **152, 168**  
 Aboriginal, **177**  
 Acetylcholinesterase, **174, 181**  
 Acidosis, **147**  
 Activity, **175**  
   activity rhythms in *Capra hircus*,  
     351  
   sedentary activities, **175**  
 Acute phase response, **179**  
 Adaptation, **728**  
 Adipocyte, **154, 159, 168**  
   insulin-induced lipogenesis, 419  
 Adiponectin, **159, 183**  
 Adipose tissue, **155**  
   youthful and mature beef adipose  
   tissue composition, 591  
 Aggression  
   group size, aggression and pig  
   productivity, 9  
 Agricultural production, **185**  
 Albumin, **172**  
 Aleutian mink disease virus, **136**  
 N-alkanes  
   forage intake of grazing animals,  
   693  
 Allergens, food, **172**  
 Alpha-linolenic acid, **186**  
   chia to enrich  $\omega$ -3 content of broiler  
   meat, 257  
 Alzheimer's disease, **175**  
 Ammonia  
   methane and ammonia emissions  
   from a beef feedlot, 641  
 $\alpha$ -amylase  
   dietary corn silage inclusion and  
   pancreatic enzyme activity, 703  
   dietary intake and pancreatic  
   enzyme activity, 303  
 Anaemia, **181**  
 Angiotensinogen, **168**  
 Animal isolates, **192**  
 Animal studies, **155**  
 Anoestrus, **147, 150**  
 Anthropometrics, **175**  
 Antibiotic, **167, 152, 164**  
   yeast beta-glucan and broiler  
   chicken growth, 469  
 Antibiotic growth promoter  
   alternatives to antibiotic growth  
   promoters for broilers, 623  
 Antibiotic resistance, **139**  
 Anti-diarrhea agents  
   anti-diarrhea agents for piglet, 485  
 Antimicrobial, **140**  
 Antimicrobial growth promotants,  
   **189**  
 Antioxidant, **171, 174, 168**  
    $\alpha$ -tocopherol on bovine  
   cumulus-oocyte complexes, 463  
 Apoptosis, **171**  
 Appetite, **180**  
 Arachidonic acid, **152, 156**  
 Arcott breed  
   sheep genetic resources in North  
   America, 391, 399, 569  
 Arginine, **176**  
 Astaxanthin  
   pigmentation of egg yolks, 637  
 Astrocytes, **186**  
 Astronaut, **173**  
 ATPase, **144**  
 ATP synthase, **144**  
 Automatic milking systems  
   cow lameness and automatic  
   milking systems, 1  
 Average relatedness  
   genetic variability in Zandi sheep,  
   409  
*Bacillus thuringiensis* endotoxin  
   *Bt* transgenes and protein in corn  
   silage and grain, 85  
 Backgrounding  
   backgrounding calves on annual  
   ryegrass pasture, 19  
 Bacteriophage, **178, 185**  
 Bale grazing, **146**  
 Barley, **190, 191**  
   chemical characteristics and  
   ruminal parameters of barley, 711  
   processed barley for feedlot cattle,  
   667  
 Barley grain, **143**  
 Barley silage, **140**  
 Batakese, **192**  
 Bean, **169**  
 Beef, **152, 155**  
   antibiotic combinations in corn  
   based feedlot diets, 499  
   wheat distillers in feedlot diets, 659  
   youthful and mature beef adipose  
   tissue composition, 591  
 Beef cattle, **179, 185, 728, 732, 735**  
   dietary corn silage inclusion and  
   pancreatic enzyme activity, 703  
   dietary intake and pancreatic  
   enzyme activity, 303  
   effects of feeding time on steers in  
   winter, 369  
   effect of selenium fertilizer on  
   selenium concentrations, 79  
   monensin on beef cow  
   reproduction, 113  
   timed AI in beef cattle, 439  
   wheat-based dried distillers' grain  
   for cattle, 721  
 Beef fat, **191**  
 Behaviour, **138**  
   behaviour of piglets following  
   transport, 357  
   cow lameness and automatic  
   milking systems, 1  
   electronic sow feeding system, 559  
   group size, aggression and pig  
   productivity, 9  
 Beta-glucan  
   yeast beta-glucan and broiler  
   chicken growth, 469  
 Beverage intake, **170**  
 Bicarbonate, **147**  
 Bioamine, **147**  
 Biohydrogenation, **145**  
   in situ biohydrogenation of fatty  
   acids, 335  
 Biomechanics, **182**  
 Bitter melon, **171**  
 Bloat, frothy  
   effect of feeding hay on bloat, 29  
 Blood flow  
   lactating sow's mammary glands,  
   195  
 Blood pressure, **168**  
 Blood urea nitrogen, **148**  
 Blue mussel shells, **167**

Page numbers in bold refer to abstracts



- Body condition, **147, 150**  
 body condition scores in Canadian dairy cattle, 213  
 short dry periods for Holstein cows, 449
- Body temperature, **179**  
 body temperature monitoring with RFID boluses, 225
- Body weight, **734**
- Bone mass, **182**
- Bone resorption, **160**
- Bovine  
 $\alpha$ -tocopherol on bovine cumulus-oocyte complexes, 463  
 regulation of meiosis in bovine oocytes, 343
- Bovine respiratory disease, **139**
- Bowel inflammation, **165**
- Brassica carinata*, **166**
- Brassica napus*, **166**
- Breastfeeding, **176**
- Breast milk, **168**
- Breed **135, 179**
- Broiler chicken  
 alternatives to antibiotic growth promoters for broilers, 623  
 chia to enrich  $\omega$ -3 content of broiler meat, 257  
 energy partitioning in broiler chickens, 205  
 processing and wheat-based diets, 57  
 yeast beta-glucan and broiler chicken growth, 469
- Brown seaweed, **142, 143**
- By-product  
 wheat-based dried distillers' grain for cattle, 721
- Calcium balance, **166**
- Camelina sativa*, **166**
- cAMP  
 regulation of meiosis in bovine oocytes, 343
- Cancer, prostate, **153**
- Canola, **149, 190**
- Can-sugar, **149, 190**
- Carboxydase enzymes, **162**
- Carbohydrate, **149**
- Carbon dioxide  
 energy expenditure of grazing cattle, 651
- Carbon:nitrogen ratio, **725**
- Carcass characteristics  
 developmental pattern of lipid metabolism in gilts, 601
- Carcass composition, **145**  
 processed barley for feedlot cattle, 667
- Cardiac, **157**
- Cardiac hypertrophy, **158**
- Cardiovascular, **157**
- Cardiovascular disease, **157, 159**
- Carotenoid  
 pigmentation of egg yolks, 637
- Cattle, **136, 143, 147, 730**
- Cattle  
 body temperature monitoring with RFID boluses, 225  
*E. coli* 0157:H7 colonization in cattle, 41  
 effect of SF<sub>6</sub> permeation rate on methane emission estimates, 309  
 method for assessing *Escherichia coli* 0157:H7 toxin activity, 51  
 processed barley for feedlot cattle, 667  
 shiga toxin interactions with cattle intestine, 581
- Cattle, dairy, **138, 147, 149, 150, 725, 734, 736**  
 body condition scores in Canadian dairy cattle, 213  
 lipids and methane production in lactating dairy cows, 331  
 metabolizable protein supply from CDC SO-I oat, 507  
 triticale distillers' grain for dairy cattle, 129  
 short dry periods for Holstein cows, 449
- Cell culture, **168**
- Cellularity  
 IUGR and gastrointestinal growth, 107
- Chemical composition, **149**  
 grain pearl millet, 71
- Chia seed  
 chia to enrich  $\omega$ -3 content of broiler meat, 257
- Chicken  
 cryopreservation of Canadian chickens, 577
- Chicken, broiler  
 alternatives to antibiotic growth promoters for broilers, 623  
 chia to enrich  $\omega$ -3 content of broiler meat, 257  
 energy partitioning in broiler chickens, 205  
 processing and wheat-based diets, 57  
 yeast beta-glucan and broiler chicken growth, 469
- Children, **152, 175, 181**
- Chitooligosaccharide  
 lecithin and chitooligosaccharide in finishing pigs, 283
- Chlortetracycline  
 antibiotic combinations in corn based feedlot diets, 499
- Cholesterol, **152, 168**
- CIDR  
 pregnancy rates and progesterone in cows, 457  
 timed AI in beef cattle, 439
- Coleus amboinicus*, **192**
- Colonization  
*E. coli* 0157:H7 colonization in cattle, 41  
 shiga toxin interactions with cattle intestine, 581
- Community analysis, **139**
- Composite line, **135**
- Compost, **142**
- Concentrate  
 dietary corn silage inclusion and pancreatic enzyme activity, 703
- Conjugated linoleic acid, **155, 157, 158, 159, 168, 183**  
 forage and temporal changes in milk CLA, 123  
 linola oil and milk CLA content, 321  
 youthful and mature beef adipose tissue composition, 591
- Continuous culture, **141**
- Control charts, **733**
- COQ10, **170**
- Corn, **163, 191**  
 high moisture corn, **163**
- Corn distillers' grain  
 triticale distillers' grain for dairy cattle, 129
- Corn processing  
 antibiotic combinations in corn based feedlot diets, 499
- Corn silage  
 feed enzymes for corn silage, 97
- Cortisol, **179**
- Cortisol effect, **731**
- Cow, **728**  
 cull cows, **137**  
 fertility and parity in lactating dairy cows, 425  
 pregnancy rates and progesterone in cows, 457  
 wintering cows, **190**
- Cow lameness and automatic milking systems, **1**
- Cow reproduction, **191**



- Cow, wintering, 191  
 Crab meal, 178  
   pigmentation of egg yolks, 637  
 Crude protein, 148, 165, 179  
 Cryopreservation  
   cryopreservation of Canadian chickens, 577  
 CSF paradox, 147  
 Cytokine, 173  
 Cytotoxin  
   *E. coli* 0157:H7 colonization in cattle, 41  
   method for assessing *Escherichia coli* 0157:H7 toxin activity, 51
- Daily rhythm  
   activity rhythms in *Capra hircus*, 351  
 Dairy systems, 144  
 Deamination  
   essential oils and ruminal bacteria activities, 117  
 Degradability  
   feed enzymes for corn silage, 97  
 Depletion-repletion protocol, 178  
 Development, 155  
   stages of development, 325  
   nutritive value of timothy at two stages of development, 325  
 Diabetes, 157  
   early-onset type 2 diabetes, 177  
   fetal exposure to maternal type 2 diabetes, 177  
 Dietary quality, 174  
   high protein, 172  
 Dietary fibre, 730  
 Dieting, 175  
 Digestibility, 141  
   processing and wheat-based diets, 57  
   starch digestion in weaned pig diets, 65  
   triticale in weaned pig diets, 631  
   true digestibility, 165  
   wheat distillers in feedlot diets, 659  
   zero-tannin faba bean in swine diets, 293  
 Digestive physiology, 187  
 Disease, chronic 176, 188  
 Distillers' grains  
   distillers' grain unsaturated fatty acids, 159  
   wheat-based dried distillers' grain for cattle, 721  
   wheat distillers in feedlot diets, 659  
 DNA-technology, 183
- Docosahexaenoic acid, 152, 154, 156, 186, 188  
 Dog, 157  
 Dry forage intake  
   factors depressing dry forage intake, 237  
 Dry matter intake, 144  
   forage intake of grazing animals, 693  
 Dry period  
   short dry periods for Holstein cows, 449  
 Dulse, 171  
 Dyslipidemia, 155, 157
- Economic value, 135  
 Economics, 135  
   backgrounding calves on annual ryegrass pasture, 19  
 Egg, 158  
   pigmentation of egg yolks, 637  
   productive performance and egg yolk composition, 179  
 Egg fatty acid composition  
   selenium and vitamin E on egg quality, 475  
 Eicosapentaenoic acid, 154, 157  
 Elaidic acid, 153  
 Electronic sow feeding system, 559  
 Electroretinogram, 153  
 Energy  
   chemical characteristics and ruminal parameters of barley, 711  
   energy and lysine intake in primiparous sows, 247  
   energy expenditure of grazing cattle, 651  
   energy partitioning in broiler chickens, 205  
   intake, 158, 175  
   metabolism, 161  
   timed AI in beef cattle, 439  
   value, 150  
   zero-tannin faba bean in swine diets, 293  
 Enteric fermentation  
   fermentable protein and carbohydrates for piglets, 271  
 Environmental condition  
   activity rhythms in *Capra hircus*, 351  
 Environmental goods and services, 185  
 Environmental impact, 144  
 Enzyme-linked immunosorbent assay, 172
- Escherichia coli* 0157:H7, 142, 162, 178, 185, 187, 192  
   anti-diarrhea agents for piglet, 485  
   *E. coli* 0157:H7 colonization in cattle, 41  
   method for assessing *Escherichia coli* 0157:H7 toxin activity, 51  
   shiga toxin interactions with cattle intestine, 581  
 Essential oil  
   essential oils and ruminal bacteria activities, 117  
 Estrus synchronization  
   timed AI in beef cattle, 439  
 Ethanol  
   wheat-based dried distillers' grain for cattle, 721  
 Ewe  
   folic acid and reproduction in ewes, 489  
 Ewe and grease fleece weights  
   sheep genetic resources in North America, 399  
 Exogenous fibrolytic enzymes  
   feed enzymes for corn silage, 97  
 Experimental bias, 730  
 Externality, 185  
 Extrusion  
   starch digestion in weaned pig diets, 65
- Faba bean  
   starch digestion in weaned pig diets, 65  
   zero-tannin faba bean in swine diets, 293  
 Farm  
   oronasal sensing and feed appetite in domestic animals, 535  
 Fat, 152  
 Fat-I mice, 153  
 Fatigue, 180  
 Fatty acid, 148, 152, 153, 154, 157, 159, 160, 184  
   chia to enrich  $\alpha$ -3 content of broiler meat, 257  
    $\alpha$ -3 fatty acids, 153, 158, 186  
   linola oil and milk CLA content, 321  
   n3 fatty acids, 153  
   trans fatty acids, 152, 153  
   trans vaccenic acid, 155  
   youthful and mature beef adipose tissue composition, 591  
 Fecal endogenous protein loss, 165  
 Fecal microflora, 141  
 Fecal sampling, 178

- Feed efficiency, 179  
 Feed intake  
   dietary intake and pancreatic enzyme activity, 303  
   oronasal sensing and feed appetite in domestic animals, 535  
   periparturient risk factors and sow longevity, 381  
   residual feed intake, 728  
   restrictive feeding, 163  
 Feed restriction, 148  
 Feeder design, 167  
 Feeding behaviour, 149  
   effects of feeding time on steers in winter, 369  
 Feeding frequency, 167  
 Feeding time, 151  
   effects of feeding time on steers in winter, 369  
 Feedlot  
   wheat-based dried distillers' grain for cattle, 721  
 Fermentation, 141, 146  
 Fermented liquid feed, 163  
 Fertility  
   folic acid and reproduction in ewes, 489  
 Fertilization  
   effect of selenium fertilizer on selenium concentrations, 79  
 Fetal exposure to maternal type 2 diabetes, 177  
 Fibre  
   dietary fibre, 730  
   fermentable protein and carbohydrates for piglets, 271  
 Fibre, insoluble  
   fibre effects in pelleted wheat and oat broiler diets, 613  
 Fibre-protein, 149, 190  
 Fibrolytic enzymes, 141  
 Finnsheep  
   sheep genetic resources in North America, 391, 399  
 Fish, 157  
 Fish meal, 151  
 Fish oil  
   forage and temporal changes in milk CLA, 123  
 Flax, 152, 157, 160  
 Flaxseed, 151, 184, 189  
   chia to enrich  $\omega$ -3 content of broiler meat, 257  
   flaxseed and mammary development in swine, 585  
   in situ biohydrogenation of fatty acids, 335  
 Folic acid  
   folic acid and reproduction in ewes, 489  
   Food allergens, 172  
   Food intake, 169, 180  
   Food patterns, 176  
   Forage  
     cool season crops for beef grazing, 517  
     composition, 733  
     diet, 143  
     dietary corn silage inclusion and pancreatic enzyme activity, 703  
     quality, 517  
     sampling, 733  
     temporal changes in milk CLA, 123  
   Fractional protein synthesis rates, 731  
   Freshman 15, 175  
   Gait scoring  
     cow lameness and automatic milking systems, 1  
   Garlic oil, 154  
   Gas production  
     feed enzymes for corn silage, 97  
   Gastrointestinal function  
     fermentable protein and carbohydrates for piglets, 271  
   Gastrointestinal tract  
     IUGR and gastrointestinal growth, 107  
   Gender, 163  
   Gene expression, 165  
     flaxseed and mammary development in swine, 585  
     porcine proglucagon and microbial effects on expression, 429  
   Genetic markers, 180  
   Genetic resources  
     cryopreservation of Canadian chickens, 577  
   Genetic trends  
     genetic variability in Zandi sheep, 409  
   Genetic variability, 136  
   Genetically modified plants  
     *Bt* transgenes and protein in corn silage and grain, 85  
   Genotype, 139  
   Genotyping, 135, 192  
   Gestation  
     electronic sow feeding system, 559  
     energy and lysine intake in primiparous sows, 247  
     flaxseed and mammary development in swine, 585  
   Gilt, 160  
   developmental pattern of lipid metabolism in gilts, 601  
   Glomerular hypertrophy, 172  
   Glomerulosclerosis, 157, 172  
   Glucose tolerance, 149  
   Glycemic response, 169, 180  
   Gnotobiotic  
     porcine proglucagon and microbial effects on expression, 429  
   Goat  
     activity rhythms in *Capra hircus*, 351  
     factors depressing dry forage intake, 237  
   Gonad  
     cryopreservation of Canadian chickens, 577  
   Grain, 145  
   Grain processing, 149  
   Grazing  
     cool season crops for beef grazing, 517  
     energy expenditure of grazing cattle, 651  
     forage intake of grazing animals, 693  
     straw/chaff grazing, 146  
     swath grazing, 146  
   Greenhouse gases, 143  
   Grind size  
     processing and wheat-based diets, 57  
   Growing and finishing  
     group size, aggression and pig productivity, 9  
     wheat-based DDGS for feedlot cattle, 677  
   Growing pigs, 163  
   Growth, 166, 167, 726  
     growth function, 736  
     growth models, 735  
     growth potential, 161  
     triticale in weaned pig diets, 631  
     sheep genetic resources in North America, 391  
     yeast beta-glucan and broiler chicken growth, 469  
   Growth factor  
     developmental pattern of lipid metabolism in gilts, 601  
   Growth performance  
     zero-tannin faba bean in swine diets, 293  
   Hay supplement  
     effect of feeding hay on bloat, 29  
   Health, 173  
   Health claim, 188

- Healthy eating index, 174  
 Heart disease, 159  
 Heat treatment  
   processing and wheat-based diets, 57  
 Heifer  
   fertility and parity in lactating dairy cows, 425  
 Hemp, 169  
 Hen, laying, 137, 166, 178  
   pigmentation of egg yolks, 637  
 Heritability  
   genetic variability in Zandi sheep, 409  
 Holstein, 137  
   genetic variation of *PRLR* gene and milk performance, 33  
 Homocysteine, 178  
 Hormone  
   developmental pattern of lipid metabolism in gilts, 601  
 Hot boning, 137  
 Hull, 190  
 Human trials, 155  
 Hydroxycinnamic acids, 190  
 Hypercholesterolaemic, 153  
 Hyperhomocysteinemia, 169  
 Hypolipidemia, 188  
  
 Immune, 154, 156  
 Immunity, 165, 166  
 Inbreeding  
   genetic variability in Zandi sheep, 409  
 Indonesia, 192  
 Infant nutrition, 176, 177  
 Infectious disease, 138, 187  
 Inflammation, 154  
 Infrared thermography, 138, 139  
 Inoculant, 140  
 Insoluble cereal fiber, 180  
 Insulin, 149  
   insulin-induced lipogenesis, 419  
   insulin resistance, 155  
 Insulin-like growth factor-I, 147, 150  
 Intake models, 728  
 Intestinal alkaline phosphatase, 165  
 Intestinal microbial ecology, 187  
 Intestine  
   *E. coli* 0157:H7 colonization in cattle, 41  
   method for assessing *Escherichia coli* 0157:H7 toxin activity, 51  
   porcine proglucagon and microbial effects on expression, 429  
   interactions with cattle intestine, 581  
 Intrauterine growth restriction  
   IUGR and gastrointestinal growth, 107  
 Inverse dispersion  
   methane and ammonia emissions from a beef feedlot, 641  
 In vitro digestibility, 156  
 Ionophore  
   in situ biohydrogenation of fatty acids, 335  
 Ischemia, 159  
 Isoflavones, 188  
 Isotope tracers, 731  
  
 Juniper berry oils, 154  
  
 Kinetics assimilation, 729  
  
 Lactation, 190, 734, 736  
   energy and lysine intake in primiparous sows, 247  
   lactating sow's mammary glands, 195  
   lipids and methane production in lactating dairy cows, 331  
 D-lactic acid, 147  
*Lactobacillus plantarum*, 140  
 Laidlomycin  
   antibiotic combinations in corn based feedlot diets, 499  
 Lamb, postnatal  
   IUGR and gastrointestinal growth, 107  
 Lamb weight  
   sheep genetic resources in North America, 399  
 Lameness  
   cow lameness and automatic milking systems, 1  
 Lasalocid, 145  
   in situ biohydrogenation of fatty acids, 335  
 Lean body mass, 173  
 Lecithin  
   lecithin and chitooligosaccharide in finishing pigs, 283  
 Leptin, 137  
*Leymus chinensis*, 141  
 Life cycle assessment, 144  
 Light, dim  
   endocrine and production responses to dim-light, 609  
 Lignan, 141, 146  
 Lineage characterization, 192  
 Linola oil  
   linola oil and milk CLA content, 321  
 Linolenic acid, 151, 186  
 Lipid metabolism  
   developmental pattern of lipid metabolism in gilts, 601  
 Lipid peroxidation, 152  
   selenium and vitamin E on egg quality, 475  
 Lipid supplementation  
   lipids and methane production in lactating dairy cows, 331  
 Lipogenesis  
   insulin-induced lipogenesis, 419  
 Liquid feeding, 163, 167, 177  
 Liver, 183  
 Lobster meal, 178  
 Long-chain polyunsaturated fatty acids, 152  
 Longevity  
   periparturient risk factors and sow longevity, 381  
 Lysine  
   energy and lysine intake in primiparous sows, 247  
 Lysine requirement, 161  
 Lysozyme, 167  
  
 Maize, transgenic  
   *Bt* transgenes and protein in corn silage and grain, 85  
 Malawi, 181  
 Male, 175  
 Malnutrition, 173  
 Mammary development  
   flaxseed and mammary development in swine, 585  
 Mammary gland  
   lactating sow's mammary glands, 195  
 Management  
   short dry periods for Holstein cows, 449  
 Management strategy, 143  
 Manure, 140  
 Manure composition, 725  
 Marek's disease resistance, 180  
 Markers, 733  
 Mathematical model, 732  
 Meal pattern, 189  
 Mechanistic, 183  
*Medicago sativa* L.  
   effect of feeding hay on bloat, 29  
 Meiosis  
   regulation of meiosis in bovine oocytes, 343  
 Melatonin

- endocrine and production responses to dim-light, 609
- Meta-analysis, 730
- lipids and methane production in lactating dairy cows, 331
- Metabolic disorder
- nutritive value of timothy at two stages of development, 325
- Metabolic rate
- energy partitioning in broiler chickens, 205
- Methane, 148
- effect of SF<sub>6</sub> permeation rate on methane emission estimates, 309
- lipids and methane production in lactating dairy cows, 331
- methane and ammonia emissions from a beef feedlot, 641
- Methanogenesis
- essential oils and ruminal bacteria activities, 117
- Methylmercury, 174, 181
- Metritis, 138
- Microbial flux, 183
- Microbial passage, 727
- Microbial responses, 164
- Microflora, 141
- Micronutrient, 181
- Milk
- cumulative milk yield, 736
- forage and temporal changes in milk CLA, 123
- linola oil and milk CLA content, 321
- Milk composition, 734
- Milk fatty acids, 149, 156
- Milk performance traits
- genetic variation of *PRLR* gene and milk performance, 33
- Milk production, 138
- endocrine and production responses to dim-light, 609
- triticale distillers' grain for dairy cattle, 129
- Milk yield and composition
- sheep genetic resources in North America, 569
- Milking systems, automatic
- cow lameness and automatic milking systems, 1
- Minimum inhibitory concentration, 140
- Mink, 136
- Mitigation, 143
- Modelling, 183, 187, 190, 725, 728, 734
- stochastic model, 733
- Moisture enhancement, 137
- Molecular structure, 189
- Molly, 730
- Molybdenum, 177
- Monensin, 145
- antibiotic combinations in corn based feedlot diets, 499
- in situ biohydrogenation of fatty acids, 335
- monensin on beef cow reproduction, 113
- Monoamine oxidase, 174, 181
- Mortality, 142, 167
- Mouse, 173
- Multiple antibiotic resistance, 140
- Mussel shells, 167
- Mustard, yellow, 172
- Mycosporine-like amino acids, 171
- NADPH oxidase, 169
- Napin, 172
- National nutrition survey, 174
- Neonate, 176
- Nervous system, 186
- Net energy intake, 726
- Net feed efficiency, 191
- Nitrogen availability, 727
- Nitrogen balance, 151
- Nitrogen efficiency, 725
- Non-starch polysaccharides, 162
- North America, 177
- North American breeds
- sheep genetic resources in North America, 391
- Nova Scotia, 144
- NPCIL1, 168
- Nutrient, 730
- Nutrient availability, 189
- Nutrient digestibility, 151, 162
- lecithin and chitooligosaccharide in finishing pigs, 283
- Nutrient requirements, 190
- Nutrient sensing
- oronasal sensing and feed appetite in domestic animals, 535
- Nutrient supply, 150
- Nutrient uptake
- lactating sow's mammary glands, 195
- Nutrition, 173
- Nutritive value
- nutritive value of timothy at two stages of development, 325
- zero-tannin faba bean in swine diets, 293
- Oat genotype
- metabolizable protein supply from CDC SO-I oat, 507
- Obesity, 154
- Offspring
- flaxseed and mammary development in swine, 585
- Oilseed, 148, 152
- full-fat oilseeds, 166
- Olfaction
- oronasal sensing and feed appetite in domestic animals, 535
- Oocyte
- regulation of meiosis in bovine oocytes, 343
- $\alpha$ -tocopherol on bovine cumulus-oocyte complexes, 463
- Optimization, 135
- Oral supplements, 175
- Ovsynch
- pregnancy rates and progesterone in cows, 457
- timed AI in beef cattle, 439
- Palatability, 190
- Palmaria palmata*, 171
- Pancreas
- dietary corn silage inclusion and pancreatic enzyme activity, 703
- dietary intake and pancreatic enzyme activity, 303
- Parity
- fertility and parity in lactating dairy cows, 425
- Particle size distribution, 190
- Passage rate, 733
- Pasture, 148
- backgrounding calves on annual ryegrass pasture, 19
- Pathogen, 139, 140
- PCR-RFLP, 137
- Pea protein isolate, 164
- Pearl millet
- grain pearl millet, 71
- Pelleting, steam
- fibre effects in pelleted wheat and oat broiler diets, 613
- Performance, 164, 167
- improving productivity of steers fed grass silage, 685
- lecithin and chitooligosaccharide in finishing pigs, 283
- performance and carcass quality, 677
- processed barley for feedlot cattle, 667
- productive performance and egg yolk composition, 178
- short dry periods for Holstein cows, 449

- wheat-based DDGS for feedlot cattle, 677
- Perilipin, 183
- Permeation rate  
effect of SF<sub>6</sub> permeation rate on methane emission estimates, 309
- Peroxisome proliferator-activated receptors, 158
- Phleum pratense* L.  
nutritive value of timothy at two stages of development, 325
- Phlorotannin, 142, 143
- Phosphorus, 146, 163, 177
- Phytase, 162, 177  
processing and wheat-based diets, 57
- Pig, 138, 152, 161, 162, 163, 167, 176, 178, 187  
behaviour of piglets following transport, 357  
fermentable protein and carbohydrates for piglets, 271  
flaxseed and mammary development in swine, 585  
group size, aggression and pig productivity, 9  
insulin-induced lipogenesis, 419  
porcine proglucagon and microbial effects on expression, 429  
zero-tannin faba bean in swine diets, 293
- Pig, weaned, 165, 731  
behaviour of piglets following transport, 357  
early weaning, 138  
starch digestion in weaned pig diets, 65  
triticale in weaned pig diets, 631
- Piglet, 156, 162, 164, 165, 187  
anti-diarrhea agents for piglet, 485  
behaviour of piglets following transport, 357
- Plant extract, 185  
alternatives to antibiotic growth promoters for broilers, 623
- Plant sterol, 168
- Plasma LPS, 179
- Polyamine, 147
- Polychlorinated biphenyls, 174
- Polymorphism, 137
- Pork quality  
lecithin and chitooligosaccharide in finishing pigs, 283
- Postpartum, 147, 150
- Post-prandial, 153
- Potassium, 146
- Potato, 191
- raw potato starch, 164
- Poultry, 138
- Preadipocyte, 171
- Prebiotic  
alternatives to antibiotic growth promoters for broilers, 623
- Predication equation  
forage intake of grazing animals, 693
- Pregnancy, 151  
pregnancy enhancement, 136
- Pregnancy rate  
fertility and parity in lactating dairy cows, 425  
pregnancy rates and progesterone in cows, 457
- Prepubertal, 160
- Prion protein gene, 135
- Probiotics, 165, 185
- Processed grains  
*Bt* transgenes and protein in corn silage and grain, 85
- Processing, 169
- Production, 151
- Productivity  
group size, aggression and pig productivity, 9  
productive performance and egg yolk composition, 179
- Profit, 135
- Progesterone  
fertility and parity in lactating dairy cows, 425  
pregnancy rates and progesterone in cows, 457
- Proglucagon  
porcine proglucagon and microbial effects on expression, 429
- Prolactin receptor  
genetic variation of *PRLR* gene and milk performance, 33
- Prolificacy  
folic acid and reproduction in ewes, 489
- Prostate cancer, 153
- Protein, 161, 164, 173, 182  
chemical characteristics and ruminal parameters of barley, 711  
fermentable protein and carbohydrates for piglets, 271  
metabolizable protein supply from CDC SO-I oat, 507  
protein degradation balance, 507  
protein digestibility-corrected amino acid score, 169  
protein metabolism, 161
- Protein, metabolizable, 727
- metabolizable protein supply  
from CDC SO-I oat, 507
- Protein source, 162
- Protein, undegradable  
improving productivity of steers fed grass silage, 685
- Proteolysis  
essential oils and ruminal bacteria activities, 117
- Proximate analysis, 169
- PUFA synthase, 188
- Pulse, 169
- Pulse wave velocity, 170
- Pure culture, 142
- Pyridoxine, 166
- Radio-frequency identification  
body temperature monitoring with RFID boluses, 225
- Rainbow trout, 166
- Rapeseed  
chia to enrich  $\alpha$ -3 content of broiler meat, 257
- Rare earth elements, 141
- Rat, 155  
Zucker rat, 183
- Red blood cell, 157
- Renal health, 172
- Reproduction, 136, 184  
folic acid and reproduction in ewes, 489  
monensin on beef cow reproduction, 113  
sheep genetic resources in North America, 399  
timed AI in beef cattle, 439
- Retina, 153
- Risk factor  
periparturient risk factors and sow longevity, 381
- Robustness, 733
- Romanov  
sheep genetic resources in North America, 391, 399
- Rubber tree, 732
- Rumen, 146, 183, 189  
body temperature monitoring with RFID boluses, 225  
degradability, 149  
epithelium, 728  
evacuation, 733  
fermentation, 143, 149  
function, 727  
models, 730  
residence time, 733
- Rumen carbohydrate



- improving productivity of steers fed grass silage, 685
- Rumenic acid
  - youthful and mature beef adipose tissue composition, 591
- Ruminal degradability
  - grain pearl millet, 71
  - ruminally degradable protein, 179
- Ruminal digestion, 730
- Ruminant
  - chemical characteristics and ruminal parameters of barley, 711
- Ruminant livestock
  - methane and ammonia emissions from a beef feedlot, 641
- Runt, 176
- Ryegrass, annual
  - cool season crops for beef grazing, 517
- Safety, 189
- Satiety, 169
- Schizochytrium*, 188
- Scrapie, 135
- Season, 138
  - behaviour of piglets following transport, 357
- Seaweed, 143, 160
- Selenium, 181, 729
  - effect of selenium fertilizer on selenium concentrations, 79
  - selenium and vitamin E on egg quality, 475
  - sensitivity analysis, 733
- Sensory analysis, 158
- Sex, 161
- SF<sub>6</sub> tracer
  - effect of SF<sub>6</sub> permeation rate on methane emission estimates, 309
- Shear force, 137
- Sheep, 135
  - genetic variability in Zandi sheep, 409
- Sheep breed
  - sheep genetic resources in North America, 391, 399, 409, 569
- Shellfish
  - blue mussel shells, 166
  - shellfish by-products, 167
- Shell quality, 166
- Shiga toxin
  - shiga toxin interactions with cattle intestine, 581
- Signalling, 161
- Silage, 145
  - barley silage, 140
  - Bt* transgenes and protein in corn silage and grain, 85
  - feed enzymes for corn silage, 97
- Silvo-pasture, 732
- Single nuclear polymorphism, 168
- Skeletal muscle, 161
- Slaughter technique, 733
- Small grain cereals
  - cool season crops for beef grazing, 517
- Software, 735
- Soluble fibre
  - fibre effects in pelleted wheat and oat broiler diets, 613
- Somatosensing
  - oronasal sensing and feed appetite in domestic animals, 535
- Sow
  - electronic sow feeding system, 559
  - energy and lysine intake in primiparous sows, 247
  - lactating sow's mammary glands, 195
  - periparturient risk factors and sow longevity, 381
- Soy protein, 188
- SREBP-1c
  - insulin-induced lipogenesis, 419
- Starch
  - starch digestion in weaned pig diets, 65
- Starch gelatinisation
  - fibre effects in pelleted wheat and oat broiler diets, 613
- State-space modelling, 726
- Statins, 153
- Steam-pelleting
  - fibre effects in pelleted wheat and oat broiler diets, 613
- Stearonic, 157
- Steer, 145
  - backgrounding calves on annual ryegrass pasture, 19
  - effect of feeding hay on bloat, 29
  - improving productivity of steers fed grass silage, 685
- Stochastic model, 733
- Storage
  - selenium and vitamin E on egg quality, 475
- Straw/chaff grazing, 147
- Streptococcus faecium*, 140
- Sturgeon, 729
- Subacute ruminal acidosis, 147, 149, 179, 189
- Sulphur hexafluoride
  - energy expenditure of grazing cattle, 651
- Sunflower oil
  - forage and temporal changes in milk CLA, 123
- Sunflower seed
  - in situ biohydrogenation of fatty acids, 335
- Superoxide, 169
- Supplementation
  - effect of selenium fertilizer on selenium concentrations, 79
- Sustainable, 732
- Swab, rectoanal mucosal, 178
- Swath grazing, 147
- Swine, 177
- Synchronization, 136
- Taste
  - oronasal sensing and feed appetite in domestic animals, 535
- TDN-based model
  - metabolizable protein supply from CDC SO-I oat, 507
- Telenutrition, 170
- Temperature, body 179
  - body temperature monitoring with RFID boluses, 225
- Tenderness, 137
- Thermoregulation
  - effects of feeding time on steers in winter, 369
- TIM-1, 156
- Tissue degradation, 142
- $\alpha$ -Tocopherol, 181
  - $\alpha$ -tocopherol on bovine cumulus-oocyte complexes, 463
- Torbangun, 192
- TPN, 176
- Trace gas emissions
  - methane and ammonia emissions from a beef feedlot, 641
- Tracer delivery, 731
- Trans* fatty acids, 152, 153
  - youthful and mature beef adipose tissue composition, 591
- Transgenic maize
  - Bt* transgenes and protein in corn silage and grain, 85
- Transition period, 148
- Transponder bolus
  - body temperature monitoring with RFID boluses, 225
- Transport, 138
  - behaviour of piglets following transport, 357
- Trans* vaccenic acid, 155
- Trend, 170
- Triglyceride, 153, 155

- Triticale
  - triticale distillers' grain for dairy cattle, 129
  - triticale in weaned pig diets, 631
- Tropics, **732**
- Trypsin
  - dietary corn silage inclusion and pancreatic enzyme activity, 703
  - dietary intake and pancreatic enzyme activity, 303
- Tryptophan, **166**
- Turkey, **167**
- Tween 80, **141**
- Tylosin
  - antibiotic combinations in corn based feedlot diets, 499
- Undegradable protein
  - improving productivity of steers fed grass silage, 685
- Urea recycling, **179**
- Vaccenic acid
  - youthful and mature beef adipose tissue composition, 591
- Variation
  - effect of SF<sub>6</sub> permeation rate on methane emission estimates, 309
- Visceral organ mass, **144**
- Viscosity
  - fibre effects in pelleted wheat and oat broiler diets, 613
- Visfatin, **158**
- Visual perception, **152**
- Vitamin
  - folic acid and reproduction in ewes, 489
  - selenium and vitamin E on egg quality, 475
  - vitamin B<sub>6</sub>, **178**
  - vitamin D receptor, **180**
- Water intake
  - factors depressing dry forage intake, 237
  - groundwater quality, **139**
- Weaned pigs, **164, 731**
  - starch digestion in weaned pig diets, 65
  - triticale in weaned pig diets, 631
- Weaning, **156**
  - behaviour of piglets following transport, 357
  - early weaning, **138**
  - starch digestion in weaned pig diets, 65
  - triticale in weaned pig diets, 631
- Weight, **175**
- IUGR and gastrointestinal growth, 107
- Wheat
  - triticale in weaned pig diets, 631
  - processing and wheat-based diets, 57
  - starch digestion in weaned pig diets, 65
  - wheat-based DDGS for feedlot cattle, 677
  - wheat distillers in feedlot diets, 659
- Willingness-to-pay, **185**
- Yeast
  - yeast beta-glucan and broiler chicken growth, 469
- Yellow mustard, **172**
- Yolk pigmentation
  - pigmentation of egg yolks, 637
- Zucker rat, **183**